Agenda
Denver Technical Issues Meeting
Libby Laboratory Team
Denver Federal Center; Tweedo Room, Bldg. 20

December 11-12, 2002

Meeting Objectives:

1. Review & Discuss ISTM2 results by method. Revise SOPs accordingly.
2. Analytical Consistency & Defensibility – analytical standards, consistent morphological & chemical identifications between laboratories
3. Share examples of problems, photos, spectra, etc. as they relate to ISTM2 or other new analytical problems of Libby sample analysis in preparation for field sample analysis for the Remedial Investigation.
4. Plan/Alter the Performance Evaluation Study in light of new ISTM2 data.

DAY 1 Wednesday December 11th

8:00-8:15 Opening Remarks & Introductions (*Mary Goldade*)

8:15-8:45 Analytical Methods - Their Present & Future Role in the Libby Remedial Investigation (*Jim Christiansen*)

8:45-9:15 Overview of where we've been with Pre-PE Study samples: Quartz, ISTM1, & ISTM2 (*Steve Wilson*)

9:15-10:00 Discuss ISTM2 Results – Ground Rules

Result summaries will have been distributed prior to the meeting. Discussions will generally revolve around why there may be differences in the results due to differences in method preparation or analysis and how or whether these differences may be resolved. These discussions will likely open with brief summary of the results for each method. It is anticipated that the laboratory representatives will come prepared to discuss their results (in an open forum setting) in relation to the other results and to share any new information or insight gained in the interim. In addition, time will be devoted to exploring how we can improve our inter-laboratory process in accuracy of identification, obtaining and analyzing standards for each method to strengthen our defensibility of analysis and other analytical defensibility concerns.

PLM (Visual Area Fraction Estimation & Point Counting Methods)

10:00-10:15 Break

10:15-11:30 ISTM2 Results (Cont'd):

PLM (Visual Area Fraction Estimation & Point Counting Methods) [cont'd]
PLM "Brown Soils" samples provided by EMSL (*Sample prep summary – EMSL*)

12:00-1:00 Lunch

1:00-1:30 Polycarbonate Filters in USGS SEM Preparation
Imaging Analysis for Determining Area Coverage on SEM samples
(*Amy Bern & Isabelle Brownfield*)

1:30-3:00 ISTM2 Results (Cont'd):

SEM (Visual Area Estimation & Structure Counting Methods)

3:00-3:15 Break

3:15-4:15 Principles of IR & Method Development at USGS (*Roger Clark*)

4:15-5:45 Break-Out Sessions

Group A: USGS Labs & New Asbestos Lab Tours [Bldgs 20 & 15] (*Sam Vance*)
Group B: ISTM2 Results – IR [Foord Room, Bldg 20]
Summary IR Prep & Analysis Method (*Rob DeMalo/Peter Frasca*)
Discussion

Group A: RESI, Hygeia, MAS, Batta
Group B: EPA, USGS, Volpe, CDM, SRC, EMSL

DAY 2 Thursday December 12th

8:00-8:15 Opening Remarks

8:15-10:00 ISTM2 Results (Cont'd):

TEM (EPA Bulk Method 600 & Water Sedimentation Methods)

10:00-10:15 Break

10:15-11:15 Wrap up/Summary of EDDs Requirements

11:15-12:00 A) Libby Amphibole Identification (Optical Properties/ Morphology/ Chemistry/ Structure)

Opening remarks/presentation (*Greg Meeker*)

Continue discussion on designing guidelines that will provide acceptable ranges of optical, morphological, chemical, and structural properties of Libby Amphibole in unknown samples.

B) Analytical Standards/Reference Materials. Standards available for use in evaluating inter-laboratory consistency (Before & After PE samples)

Balsalt Standard (BIR-1-G) for SEM (and others?)
Coarse grained Libby Amphibole material for PLM (and others?)
Other standards available for TEM? (*Greg Meeker*)
Other standards available for our other methods?

12:00-1:00 Lunch

1:00-2:30 PE Study Plans (*Bill Brattin*)

2:30-2:45 Break

3:00-4:00 Wrap up/Next Steps/Action Items

4:00-5:00 Group B: USGS Labs & New Asbestos Lab Tours [Bldgs 20 & 15] (*Sam Vance*)

Attachment

Questions/Considerations to be Covered for Each ISTM2 Session

1. Mineral characterization/identification (tables of peak ratios, reference spectra, reference fibers/minerals)
2. Available standards used to confirm/calibrate method
3. Sample prep – description by each laboratory
4. Sample analysis – description by each laboratory
5. Units of measure (How will units compare with other methods?)
6. Documentation/defensibility (Lab datasheets, modification/deviation forms, etc.)
7. EDD requirements/status
8. Sample particle size (ok? Or needs adjusting?)
9. Practicality/throughput of method (Time/sample & Cost?)
10. Modifications required to SOPs based on discussions